BTEC Assignment Brief

Qualification	Pearson BTEC International Level 3 Extended Diploma in Health and Social Care (Health Studies)
Unit number and title	**Unit 20: Genetics**
Learning aims	Learning aim A: Understand genetics and its role in human inheritance from conception to birth. Learning aim B: Examine the factors affecting pre- and post-natal development. Learning aim C: Investigate how advances in science can contribute to understanding reproductive and gene technologies. Learning aim D: Examine how legislation and ethical challenges influence the use of reproductive and gene technologies.
Assignment title	**Your introduction to genetics**
Assessor	
Issue date	
Hand in deadline	

Vocational Scenario or Context	You have been doing voluntary work experience in a local maternity unit. The member of staff who is supervising you has asked you to produce some resources that they can use with other volunteers and trainees to explain some of the issues around genetics that they have been enquiring about whilst they are on the unit. The member of staff thinks that a generic report will be the best way of presenting the information about the impact of factors on pre- and post-natal development, and a report on an individual with a specified genetic disorder will be best for the information on genetic technologies and disorders so that the people who are particularly interested can take it away and study it.

Task 1	You must produce a report that covers an evaluation of how genetics, the impact of factors affecting healthy pre-natal development, and difficulties related to reproduction affect post-natal development and care needs through the life course. This will include an assessment of the role of genetics in human reproduction from conception to birth and an assessment of how genetic and environmental factors that result in developmental delay and impairment impact on post-natal development and care needs through the life course.
Checklist of evidence required	Report

Criteria covered by this task:	
Criteria reference	To achieve the criteria you must show that you are able to:
AB.D1	Evaluate the role of genetics, the impact of factors affecting healthy pre-natal development, and difficulties related to reproduction affect post-natal development and care needs through the life course.
A.M1	Assess the role of genetics in the process of human reproduction from conception to birth.
B.M2	Assess how genetic and environmental factors resulting in developmental delay or impairment of normal body functioning impact on post-natal development and care needs through the life course.
A.P1	Explain how genetics affects the process of human reproduction from conception to birth.
B.P2	Explain how different genetic and environmental factors can affect pre- and post-natal development.
B.P3	Explain how factors that affect healthy pre-natal development leading to developmental delay or impairment of normal body functioning influence postnatal development and care needs through the life course.

Task 2	You report needs to include the following. An evaluation of the role of reproductive and gene technologies in promoting life chances and causing ethical challenges for an individual with a specific genetic disorder and society. An evaluation of the importance of the role of genetics in pre- and post-natal development including the contribution of reproductive and gene technologies in promoting individual's and society's life chances, referring to ethical challenges. Your evaluations should also analyse the impact of the technologies on the life chances of an individual and society in general. They should also analyse how a specific genetic disorder can affect the use of reproductive and gene technologies, and cause ethical challenges for an individual and society.

	Your report must show evidence of relevant legislation and regulations governing reproductive and gene technologies. You must draw suitable conclusions regarding the ethical challenges faced by professionals who work with reproductive and gene technologies.
Checklist of evidence required	An evaluative report
Criteria covered by this task:	
Criteria reference	To achieve the criteria you must show that you are able to:
CD.D2	Evaluate the role of reproductive and gene technologies in promoting life chances and causing ethical challenges for a selected individual with a specific genetic disorder and society.
D.D3	Evaluate the importance of the role of genetics in pre- and post-natal development and the contribution of reproductive and gene technologies in promoting individuals and society's life chances, referring to ethical challenges.
C.M3	Analyse the impact of reproductive and gene technologies for a selected individual and society in relation to promoting life chances.
D.M4	Analyse how a specific genetic disorder can affect the use of reproductive and gene technologies and cause ethical challenges for a selected individual and society.
C.P4	Explain how reproductive and gene technologies can contribute to promoting life chances.
C.P5	Explain the effects that reproductive and gene technologies can have on a selected individual and society.
D.P6	Explain how reproductive and gene technologies can cause ethical challenges associated with a specific genetic disorder for a selected individual and society.

Sources of information to support you with this Assignment	**Websites** https://academic.oup.com/humrep/article/24/11/2683/629168 https://journalofethics.ama-assn.org/article/ama-code-medical-ethics-opinions-related-global-reproductive-health/2018-03 https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3261493/ https://unesdoc.unesco.org/ark:/48223/pf0000367957